

Table 1-4: Recent Trends in U.S. Greenhouse Gas Emissions and Sinks (Tg CO₂ Eq)

Gas/Source	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CO₂	4,913.0	4,861.2	4,960.9	5,072.9	5,168.8	5,219.8	5,403.2	5,478.7	5,489.7	5,558.1
Fossil Fuel Combustion	4,835.7	4,782.4	4,881.1	4,986.7	5,078.4	5,121.3	5,303.0	5,374.9	5,386.8	5,453.1
Cement Manufacture	33.3	32.5	32.8	34.6	36.1	36.8	37.1	38.3	39.2	39.9
Waste Combustion	17.6	19.2	19.9	21.0	22.0	23.1	24.0	25.7	25.1	26.0
Lime Manufacture	11.2	11.0	11.4	11.6	12.1	12.8	13.5	13.7	13.9	13.4
Natural Gas Flaring	5.1	6.3	6.3	10.0	10.2	13.6	13.0	12.0	10.8	11.7
Limestone and Dolomite Use	5.1	4.9	4.5	4.1	5.2	7.0	7.3	8.3	8.1	8.3
Soda Ash Manufacture and Consumption	4.1	4.0	4.1	4.0	4.0	4.3	4.3	4.4	4.3	4.2
Carbon Dioxide Consumption	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.3	1.4	1.6
Land-Use Change and Forestry (Sink) ^a	(1,059.9)	(1,046.8)	(996.0)	(1,024.3)	(1,028.5)	(1,019.1)	(1,021.6)	(981.9)	(983.3)	(990.4)
International Bunker Fuels ^b	114.0	120.0	110.0	99.9	98.0	101.0	102.2	109.8	112.8	107.3
CH₄	644.5	642.7	648.5	638.2	646.5	650.5	638.0	632.0	624.8	619.6
Landfills	217.3	217.5	220.3	222.3	222.8	222.9	219.1	217.8	213.6	214.6
Enteric Fermentation	129.5	129.0	132.1	129.4	135.4	136.3	132.2	129.6	127.5	127.2
Natural Gas Systems	121.2	122.7	124.5	127.0	124.7	124.2	125.8	122.7	122.1	121.8
Coal Mining	87.9	83.5	80.5	70.5	71.2	74.6	69.3	68.8	66.5	61.8
Manure Management	26.4	27.5	27.9	28.1	30.3	31.0	30.7	32.6	35.2	34.4
Petroleum Systems	27.2	27.4	26.5	25.3	24.7	24.5	24.0	24.0	23.3	21.9
Wastewater Treatment	11.2	11.3	11.4	11.6	11.7	11.8	11.9	12.0	12.1	12.2
Rice Cultivation	8.7	8.5	9.6	8.7	10.2	9.5	8.8	9.6	10.1	10.7
Stationary Combustion	8.5	8.6	8.9	8.4	8.5	8.9	9.0	8.1	7.6	8.1
Mobile Combustion	5.0	4.9	5.0	5.0	4.9	4.9	4.8	4.7	4.6	4.5
Petrochemical Production	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.6	1.7
Agricultural Residue Burning	0.5	0.5	0.6	0.5	0.6	0.5	0.6	0.6	0.6	0.6
Silicon Carbide Production	+	+	+	+	+	+	+	+	+	+
International Bunker Fuels ^b	+	+	+	+	+	+	+	+	+	+
N₂O	396.9	404.3	415.4	415.9	443.2	431.9	441.6	444.1	433.7	432.6
Agricultural Soil Management	269.0	271.8	279.7	275.0	297.4	285.4	294.6	299.8	300.3	298.3
Mobile Combustion	54.3	57.5	61.6	64.5	66.4	66.8	65.3	65.2	64.2	63.4
Nitric Acid	17.8	17.8	18.3	18.6	19.6	19.9	20.7	21.2	20.9	20.2
Manure Management	16.0	16.6	16.4	16.8	16.8	16.4	16.8	17.1	17.2	17.2
Stationary Combustion	13.6	13.5	13.8	14.0	14.2	14.3	14.9	15.0	15.1	15.7
Adipic Acid	18.3	19.2	17.6	19.1	20.3	20.3	20.8	17.1	7.3	9.0
Human Sewage	7.1	7.3	7.4	7.5	7.8	8.2	7.8	7.9	8.1	8.2
Agricultural Residue Burning	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.4
Waste Combustion	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
International Bunker Fuels ^b	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0
HFCs, PFCs, and SF₆	83.9	78.8	83.6	83.8	86.9	99.0	115.1	123.3	138.6	135.7
Substitution of Ozone Depleting Substances	0.9	0.8	1.5	5.2	10.0	24.0	34.0	42.1	49.6	56.7
HCFC-22 Production	34.8	30.8	34.8	31.9	31.5	27.1	31.2	30.1	40.0	30.4
Electrical Transmission and Distribution	20.5	21.5	22.6	23.6	24.7	25.7	25.7	25.7	25.7	25.7
Aluminum Production	19.3	17.2	16.3	14.0	11.5	11.2	11.6	10.8	10.1	10.0
Semiconductor Manufacture	2.9	2.9	2.9	3.7	4.2	5.5	7.0	7.0	6.8	6.8
Magnesium Production and Processing	5.5	5.5	5.5	5.4	5.1	5.5	5.6	7.5	6.3	6.1
Total Emissions	6,038.2	5,987.0	6,108.4	6,210.8	6,345.4	6,401.3	6,597.8	6,678.1	6,686.8	6,746.1
Net Emission (Sources and Sinks)	4,978.3	4,940.2	5,112.5	5,186.5	5,316.8	5,382.3	5,576.2	5,696.2	5,703.5	5,755.7

^a Does not exceed 0.05 Tg CO₂ Eq.^a Sinks are only included in net emissions total, and are based partially on projected activity data.^b Emissions from International Bunker Fuels are not included in totals.

Note: Totals may not sum due to independent rounding.

Note: Parentheses indicate negative values (or sequestration).